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The Associate Laboratory Directorate of Weapons Production



Weapons Production

The Associate Laboratory Directorate of Weapons Production (ALDWP) produces plutonium pits, detonators, and non-nuclear components, along with the necessary evaluation that ensures safe and reliable products. The directorate's programs support multiple aspects of the national security mission, including plutonium processing and disposition, manufacturing for NASA deep space missions, surveillance, materials management, and waste operations.

ALDWP has approximately 1,300 employees with five program offices (listed below) and twelve divisions. ALDWP's Plutonium Facility at TA-55 is the Nation's Plutonium Center of Excellence.



Actinide Operations (AO)

Based at TA-55, AO provides plutonium related products and services alongside other key missions to support national security and deep space endeavors.

Developing products with superior quality and value, AO supports pit production, plutonium-238 science, manufacturing for NASA, various defense programs, and more.



Non-Nuclear Production Office (NNPO)

NNPO ensures the effectiveness of the stockpile by providing key components and services with quality, reliability, and responsiveness. Producing detonators and non-nuclear weapons parts, NNPO serves a variety of organizations at LANL and across the nation through excellence in on-site engineering, design, manufacturing, machining, and more.



Chief Operations Office (COO)

The ALDWP COO manages operations for capital and program equipment projects, systems, and workplace initiatives. The Chief Operations Office provides plutonium science and manufacturing teams with safe, secure, compliant and available facilities; training and mission services; supply chain management; and commitment to cost effectiveness.



Environment and Waste Programs (EWP)

Managing material shipping, waste, procurement, and warehousing, EWP provides mission-enabling services that protect people, resources, and the environment. Across the Laboratory, EWP successfully executes its mission assignments involving nuclear and explosive materials, science, technology, and weapons components.



Product Agency Quality (PAQ)

PAQ employs the highest technical tools, knowledge, and skills necessary to ensure that all ALDWP weapons, weapons related, and non-weapon products, meet or exceed defined quality expectations while striving to continuously improve the efficiency and effectiveness of the weapons quality management system.